Aviator Sees Sporting Chance to Reach Roof of World

Roland Rohlfs Outlines Plan for Conquest of Mount Everest, Based on Scientific Data and His Own Experiences in Even Higher Altitudes

Man has reached the North Pole, man has reached the South Pole, man has braved ocean depths in diving devices and submarines, man has flown to altiand submarines, man has flown to alti-tudes far higher than the earth's loftiest peak, and across vast marine wastes. To set foot on the roof of the world, the crest of Mount Everest, is the one great feat of exploration remaining to be achieved, and this is the goal in a new and daring enterprise.

By ROLAND ROHLFS.

THEN I first read in the news papers of a possible attempt to scale Mount Everest, the highest in the world. I decided that it could As I am neither a mountain ber nor an expert on Himalayan peaks may seem presumptuous, but I have higher than Mount Everest in a plane ing I know the exertion required even he rarefled air, and I know, too, how horrible to attempt to fill the lungs with that cold air, how quickly consciousness becins to leave one and how good it feels to frow breath after breath of pure exygen compression tank

Major Rudolph W. Schroeder, who is good friend of mine, even though he fid break my altitude record, knows what hariface the man who attempts to reach ich an altitude as Mount Everest's top, for t the peak of Schroeder's record climb his me than five miles before he recovered conisness and got his ship under control

But although the attainment of the peak Everest, 19,140 feet above sen ult "lmost to impossibility. I believe a done by making use of man's latest nd I think best means of transportation. ie airplane. It is difficult. If it wasn't man ald have done it long ago. I don't recall, and, anything easy that man hasn't dondangerous, but danger has never bule-d in his endeavor, be if the location of North Pole, the study of the N-ray is getting somewhere in a hurry

loted Aviator Assures Readers

His Plan of Ascent Is Scientific but I believe it is scientifically possible scientific phase of the matter is some I desire to emphasize, for I do not want my friends to think that that hump on head just before the Gordon Bennett rac me any worse off than I was before ranted that the stuni is risky, hard and interastit; granted, too, that chance may be a ice as it has in the past, in the first state, it is nevertheless scientifically possi-There is quite a sporting chance that a first man to reach the summit may never e it. The sporting chance is with we cross Broadway and I rarely see it sed by man, woman or child,

The peak of Mount Everest could be attailed only after months or even a year or two of preparation. This would be true of wither a force which proposed to climb the untain carrying oxygen for the man make the final dash or of a force which proposed to send two men in a plane over the top. Personally I simply cannot see the proposition at all. Dropping out the difficulties of the climb, the ice, snow eer places and other obstacles, the mer-Mising of a man's body to a height of 29,140 set by his own efforts is terrific. And when h: 18,000 or 20,000 feet on upward be must carry too an oxygen tank and wear exeedingly thick and heavy clothing, it would em that only a superman could do it.

The Duke of the Abruzzi, I note, reached in K-2, another Himalayan peak, an altitude f 24,600 feet, the present world's record, sofore he was compelled to descend. I don't know how he got that far, but I think he nust have most remarkable powers of enurance, and I doubt if this record is ever eaten by any great distance. Herschell C. arker, I understand, has said he believes 5,000 feet to be the limit in mountain

Coming down to earth, the first task be-

re an expedition which plans to send a an by plane to the summit would be to rate a base. This would not have to be a wable hase, such as would be required by mountain climbing party. Preferably this use should be in the lee of the mountain as egards the principal prevailing wind. Two he neak, would be better, but not absolutely ssary. The first big advantage possessed an airplane expedition would be the fact uat this base could be as far as 160 miles om the peak without endangering success n the least. Of course the nearer it was he better, but 100 miles, it would seem. would be enough allowance of distance to spography of this highest of all mountain hains. Some clearing of a likely spot might e necessary. The 100 miles which would ean weeks of travel for an expedition laden with the impedimenta of a mountain climbor expedition would be a matter of some-

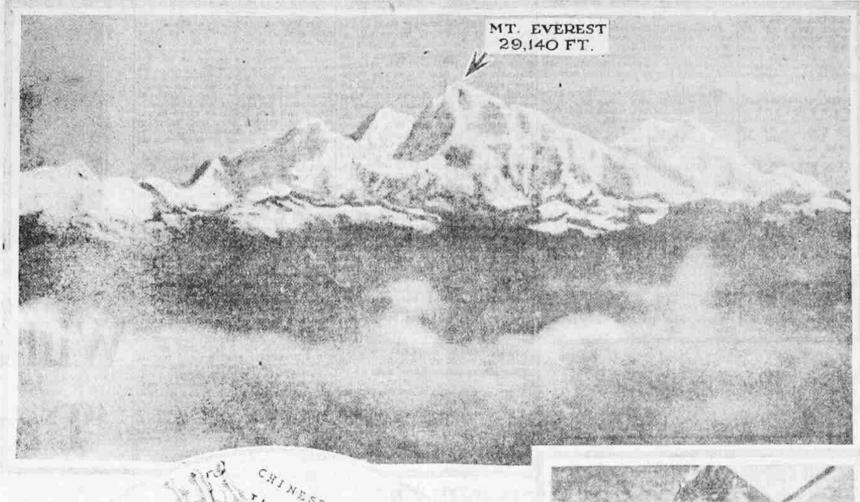
thing under an hour for the airplane. Once settled at the base the pilot and the an who expects to land on the peak would of take off, room up to 29,140 feet and accomplish the stunt. They would just start clearing away the many difficulties, one But before this is described it might well to say something about the plane

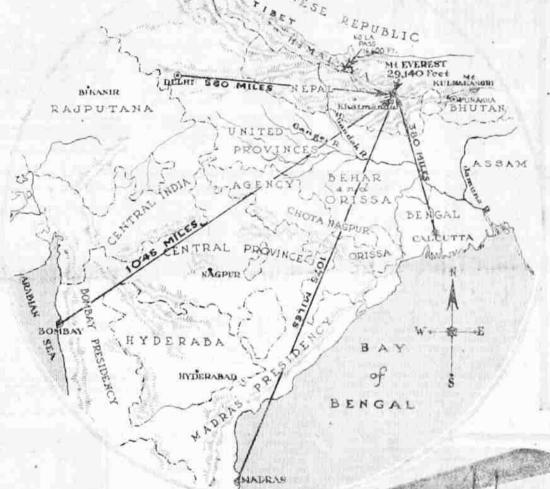
Curtiss Wasp Triplane

Might Accomplish the Task The plane used by Major Schroeder and of built for the work built for the work. Both were war els which had high speed and high mbing ability, but were not built for "ceilg" work alone. Consequently I think I am tirely safe in saying that it would be comgratively easy for a good engineer to build plane which could carry two men, oxygen. nd other supplies, to a height of thirtyacusand feet or so instead of one man and essories. Personally, I believe the Curties

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New picture of Mount Everest, the giant peak of the Himalayas and the loftiest summit in the world. The most recent survey gives it a height of 29,740 feet. Map shows the distances from Mount Everest to large places in India where climbing expeditions might be organized





Wasp triplane, with a little area added to the three wings, and a few improvements would be satisfactory. The increased area would cut down the speed somewhat but when you have a top speed of 162 miles an hour you can afford to drop a few miles. The reason I like a triplane is that it has greater range of speed than a biplane.

This range is important in our expedition. The Wasp, for instance, varies between 50 and 162 miles in landing with the throttle

onen to the last notch.

The base should be on the ler side of the nountain because in the unlikely event that the motor quit work on one of the flights it would probably be possible to side back to camp. A plane will gilde seven feet for every foot of height with a "dead silek" that is, a propeller not pulling, and to this distance the wind will add much more.

The first flight over the mountain would be purely for purposes of observation knows much about Mount Everest. understand, and photographs have been taken only from a distance of almost one hundred miles. The pilot and the observer. berefore, must look over the ground and take a few pictures themselves at close range. piciously accurate for a figure derived from ntricate triangulation at great distance, and me one may have skidded in mathematics or observation. It may be appreciably high-

Other things which must be noted on this and subsequent flights are the winds, their strength, direction and variety, the temperature of the air at the altitude of the peak, the topography of the ground all around the mountain and, most important of all, the actual formation of the peak and the areas below the peak

The temperature isn't of as great imporis the winds. We know it is cold up.
If it is anything like six miles up. on Long Island it is 44 degrees below Fahrenhelt. This, even behind the windshield of a plane, is cold, incomprehensibly cold. But it is merely one of the things that take

this out of the easy class The winds are important. Smoke bembs must be thrown on the mountain and on the peak, if possible, in order to get some idea of local wind currents. Let us hope, for reasons that appear later, that the prevailing wind at the summit is heading somewhere at between fifty and one hundred and fifty miles an hour. Personally I think the wind speed will be between fifty and one hundred miles. At thirty thousand feet I have headed into winds of 175 miles an hour. The altitude record I made was established forty miles east of Garden City, but I was heading westward at top speed all the lime. The wind simply pushed me back. I don't expect such

Curtiss Wasp triplane used in altitude climbs and which Rohits says could be modified to make the Mount Everest attempt.

turnine gales at Everest, for the reason that the expedition is fust starting. For on that the friction of surrounding mountain to spot I think it entirely possible to land from even though at considerably lower altitudes.

The two men who make the attempt must closer than brothers, for they must, at the grucial moment in the expedition, act as fast what a man who had landed on a mounone piece of machinery. They must of tain peak from an airplane travelling course be skilled airmen, a qualification not miles or less would look like let me say so unusual as before the war struck us, and ar home physically in the rare air as is pos-sible for men to be. That isn't very much at home. I may add. During the first flight. Among the things that the world had accustomed to read the slightest sign or motion of the other, must almost read the hundred horsepower motor roaring alread, luxury six miles up, particularly since each man's face is covered by a mask and he is pulling for dear life at a tube connected with the life-giving oxygen tank. It is sign

language or nothing. In these trial flights the men must study that great summit. It may be a mere planacle, a shaft of rock upheaved higher than all its fellows in the birth of the world as know it. It may be a plateau hundreds of feet across. It may be a rounded surface v hatever the peak is, it must be studied from every side as the plane circles around coming nearer and nearer, but keeping sufficiently far away to prevent a chance gust from dashing the plane upon it.

If the summit is a steeple of rock for trousands of feet the expedition is through, If the summit has on or within hundreds of feet of it a comparatively level place, the size of the top of a freight car or larger.

an airplane in full flight the man who is to have the onor of reaching the highest point in the globs.
Before the reader has time to conjure up

miles or less would look like let me say that he will be alive, uninjured but rapidly freezthey must have had considerable experience ing to death. Moreover, the man will have allitude work so that they will be as much an even better chance of getting away than

Among the things that the world had and during all the others, they must become carefully catalogued as impossible a year of two ago was changing from one plane la flight to another. Then Norman Locklear other's mind. Conversation, with a four did it and the world husted up something else to call impossible. The same principle and with a wind carrying all utterances Locklear employed can be used in this in-astern at 100 to 150 miles, is an impossible stance. His two planes were each travelling stance. His two planes were each travelling sixty miles an hour. But they were travel-ling this speed in the same direction, so

relatively they were not moving.

The airplane from which the pioneer visitor to Everest will descend will not be moving at all, yet its motor may be rearing full on. For the plans will be heading into the wind at precisely the same speed at which the wind is shooting by it. In other words, if the westerly movement of the is at the rate of seventy-five miles an hour the easterly speed of the plane will be seventy-five iniles an bour, and the result. or motion in relation to the earth, will be

This may seem to be one of those conditions which are theoretically true but actu-It may be thought that H simply could not be done on top of a moun tain or anywhere else in real life. As a matter of fact, however, men have changed from airplanes to automobiles and to freight

Famed Pilot Tells of Great Risks Involved, Including Stunts Like Changing Planes in Flight, and How Disaster May Be Avoided

hottle with hose attached to his mask, but also a parachute folded tightly against his hack. Once down on the ground or fee his first move will be to fling himself flat to the ground or catch hold of some projection to prevent himself from being carried away by peak will work quickly. A man cannot live long under such conditions, even with expren and the warmest of warm clothes. His first step will be toward some of the padded bars containing exygen tanks, additional clothing and other supplies which have been thrown near the spot upon which he first landed. near the spot upon which he first landed. These bags would be brightly colored in variour hues easily distinguishable. The oxygen supply in the small bottle he carried with him would last only for ten or fifteen minutes and he must get a bigger bottle to attach to the tube projecting from his mask. If in-struments for scientific observations are required they may also be contained in these bags. Unlike his theoretical rival, the climber, the man on the mountain top can in advance decide upon taking with him any-thing he wishes. These bags, if they con-tained anything of great weight, would, of course be planted on a previous flight mails only by the pilot. The different colors would enable the adventurer to tell the difference between one containing oxygen and one with food or anything else

The parachute strapped to the back of the man on the mountain is needed not only for the ordinary possibilities of trouble in the air, but also in the event that the landing in the great what is made at a place where steep slopes are menacingly near. If he did go over it is certain that the terrific wind would blow him clear of the mountain.

Some first hand experience convinces me that a man who wants to leave a mountain ton in the teeth of a howling gale may do no without trouble. In order to test out a paraclinte I intended using in the Gorden Benneit race I went up in a plane at Garden City with the silk life saver strapped securely to my back. We were making seventy-five miles an hour as I crawled out on the wing to make the jump from the tip in order to avoid the tail. In that wind speed it was possible to more although the pressure on the buly was decidedly heavy. At the dp, looking backward, I gave the ring a lerk. I had packed that parachute myself, and I wasn't certain I had done it right, so I was highly interested in the result. The bir sife bundle shot out in a jumble of cords and material until it reached the

and of the cords attaching it to me. Then undisculy the parachite opened wide. Instantly I was jerked out the wing. For a few seconds thereafter gravity had absolutely nothing to do with my movements. I was pulled horizontally backwards for hundreds of feet before I lost a foot of altitude. Then my weight pulled down under the big silk embredle, and, oscillating considerably, the That experienced convinced me that in free moving sir a mun has little to fear in leaving such abrupt declivity as a mountain

How the Successful Aviator Will Plant His Flag on Summit

Returning to our man on Everest, he must, neak if he is not already ther his flax, or make his observations, and get ready to leave before his circulation quits. His higgest difficulty is going to be to keep is fingers warm. Even with the warmest of fur lined buckskin gloves they may beome like clubs on the way down the hutder, a the plane, of course, electric gloves with warming current from a storage battery 18, 1919, when he reached a height of 32,430 feet. In the present article he works out roughly the manner in which. generator are used in this sort of work

While the observer is on the mountain he man in the plane will be busy taking shotographs of him from the air. For this a atrplane camera attached to some art of the plane and operated by a trigger n the pilot's cockpit is used. This type, lke a fixed muchine gun is sighted by leading the plane at the object to be photographed or shot and then letting go the

Fifteen minutes or half an hour after the man has landed he will be ready to leave. He has two alternatives. If the wind is still favorable he may crouch behind some rec's or ice bank while the pilot manmayres directover him and gradually settles down so the come ladder, twenty or thirty feet long, dangles before him. Then up that ladder, with his oxygen tank and parachute, he must climb to safety in the plane. If this is not feasible be still has a method of leaving the mountain. That is the parachute. As the one he carries on his back is an emergency chute of quick descending pattern, it will be advisable to use another, which is, of course, in one of the bags previously thrown overboard. The bigger the chute the faster and further he will be carried from the peak or the edge of the precipice from which be makes his little lesp. In this case he isn't at all sure where he is going to land, but he is headed for thicker air and solid carth.

As he glides downward into the almost anknown territory around the mountain the plane will follow in order to observe the spot where he lands. The maps or plans made of the country beforehand will be valuable here, for the pilot will probably be unable fand within miles of the chute jumper. times landed the big difficulties are overfor the man out in the wilderness is hooked up with his camp by the plane, which can ring him maps, compass, food, firearms, or

ything else he requires. The conquest of Mount Everest by airplane may seem weirdly imaginative, but I am convinced that if the peak is ever reached it will be in this or some similar The human heart has certain limitations very easily reached in high altitudes, and if man cannot get to Mount Everest's high point by the most improved method of transportation he cannot get there by the

most primitive. Such an expedition would be long, costly, dangerous and unpleasant, but it would be interesting, and the pursuit of the interesting closely connected with the pursuit of hap-Why not be blown off the highest mountain peak in the world trying to do nury Jay you low?

Although he treats the feat of reaching the roof of the world impersonally he has expressed the desire to try it himself while aviation is dull and uninteresting during the post-war slump.

ROLAND ROHLFS.

ticle, is one of the foremost aviators of

America. What is not quite so generally

known is that not alone during and en-

durance but much hard thought and me-

chanical genius went into the making of his world's altitude record on September

in his opinion, the summit of unattained Everest, highest of the Himalayas and of

the world, may be reached. The moun-tain lies between British India and Tibet.

arine Green, the novelist, who is Mrs.

Charles Roblis in private life. He has been flying for about four years. Until

peace curtailed the activities of the Cur-

day after his altitude record be demon-

streted fast climbing by soaring 19,300

upward dash of 33 feet a second, in the

same plane, a Curtiss Wasp triplane. He has made other records. Just before the

recent Gordon Bennett cup race in France Mr. Rohlfs was injured in at-

tempting to land a fast racing plane on a

rough field in an effort to reach the

starting point in time to get into the race.

In his flight from one field to another he

attained a speed of 195 miles an hour.

minutes as 2-5 seconds.

tiss Company he was its chief pilot. The

Mr. Rohlfs, who is twenty-seven years old and married, is the son of Anna Kath-

Roland Rohlfs, the writer of this ar-

are and back again. In these cases it was the air that was stationary and the points of departure and arrival that were moving n this case it will be the plane and the ir that are moving and the mountain which

Of course there are difficulties in the way The air may be so bumpy or rough that near the wind. The pilot, meanwhite will soom upward and away from the mountain and start circling around. . Once sure of his footing the man on the

the mountain the plane will dance like a crazy thing. In this case the expedition is off, at least for that day, I believe, however, that a day will come, perhaps after weeks or months of waiting, when the wind currents are blowing parallel to a level spot in a fairly

The pilot will keep his most unwavering attention on the height of the plane above the landing place and its zero speed while his partner climbs down a weighted rope ladder suspended from the axle of the plane He will be climbing in a wind blast of from fifty to a hundred miles an hour, or even more. He will be handicapped and numbed strapped to him not only a small oxygen







